Figure 1 - XML Document Structure

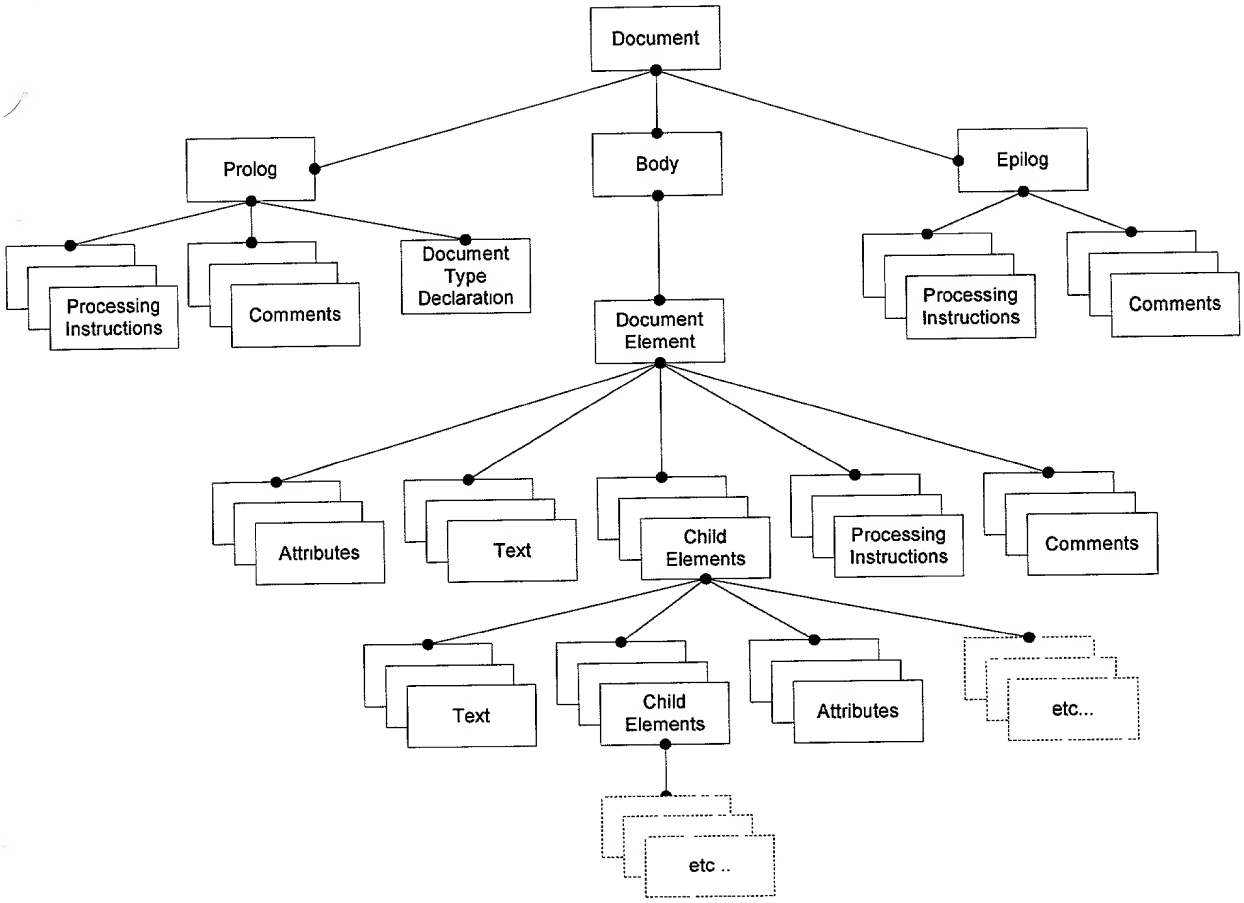

FIG. 2. – XML Data Table With Sample Data.

ID	SEQ	ANCESTORS	IMMEDIATE_PARENT	DATA_NAME	DATA_TYPE	VALUE	EMPTY
1	1	customer	prolog	XML	PI	version="1.0"	0
1	2	customer	prolog	MyPI	PI	some PI data	0
1	3	customer	customer	type	attr	preferred	0
1	4	customer/name[1]	name	pcdata[1]	text	John Smith	0
1	5	customer/gender[1]	gender	pcdata[1]	text	male	0
1	6	customer/phone[1]	phone	type	attr	home	0
1	7	customer/phone[1]	phone	pcdata[1]	text	516.555.1234	0
1	8	customer/phone[2]	phone	type	attr	office	0
1	9	customer/phone[2]	phone	pcdata[1]	text	212.555.1234	0
1	10	customer/hobby[1]	hobby	name	attr	skiing	1
1	11	customer	epilog		comment	this is the end of the document	0

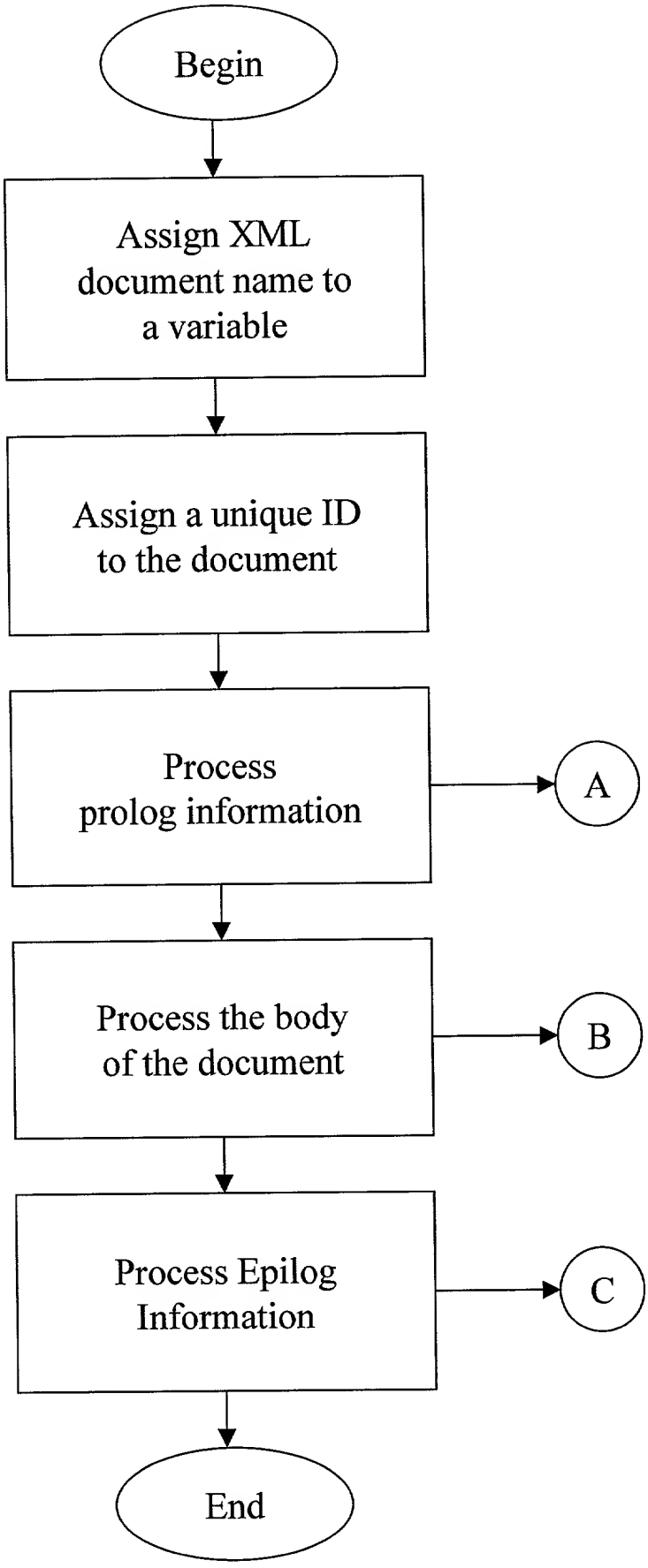
Begin
Assign XML document name to a variable
Assign a unique ID to the document
Process prolog information
A
Process the body of the document
B
Process Epilog Information
C
End

FIG. 3

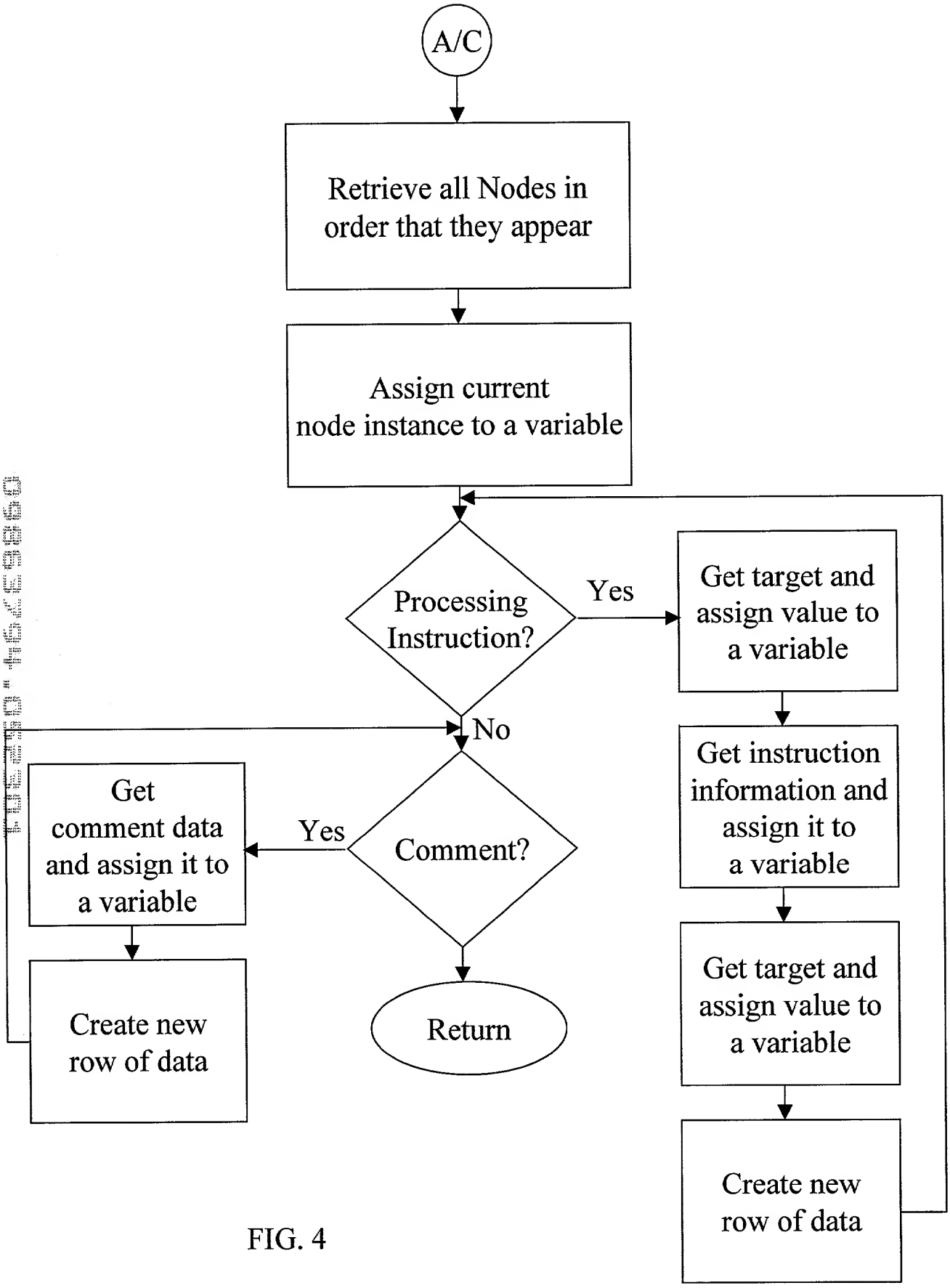
A/C
Retrieve all Nodes in order that they appear
Assign current node instance to a variable
Processing Instruction?
Yes
Get target and assign value to a variable
Get instruction information and assign it to a variable
Get target and assign value to a variable
Create new row of data
No
Comment?
Yes
Get comment data and assign it to a variable
Create new row of data
Return

FIG. 4

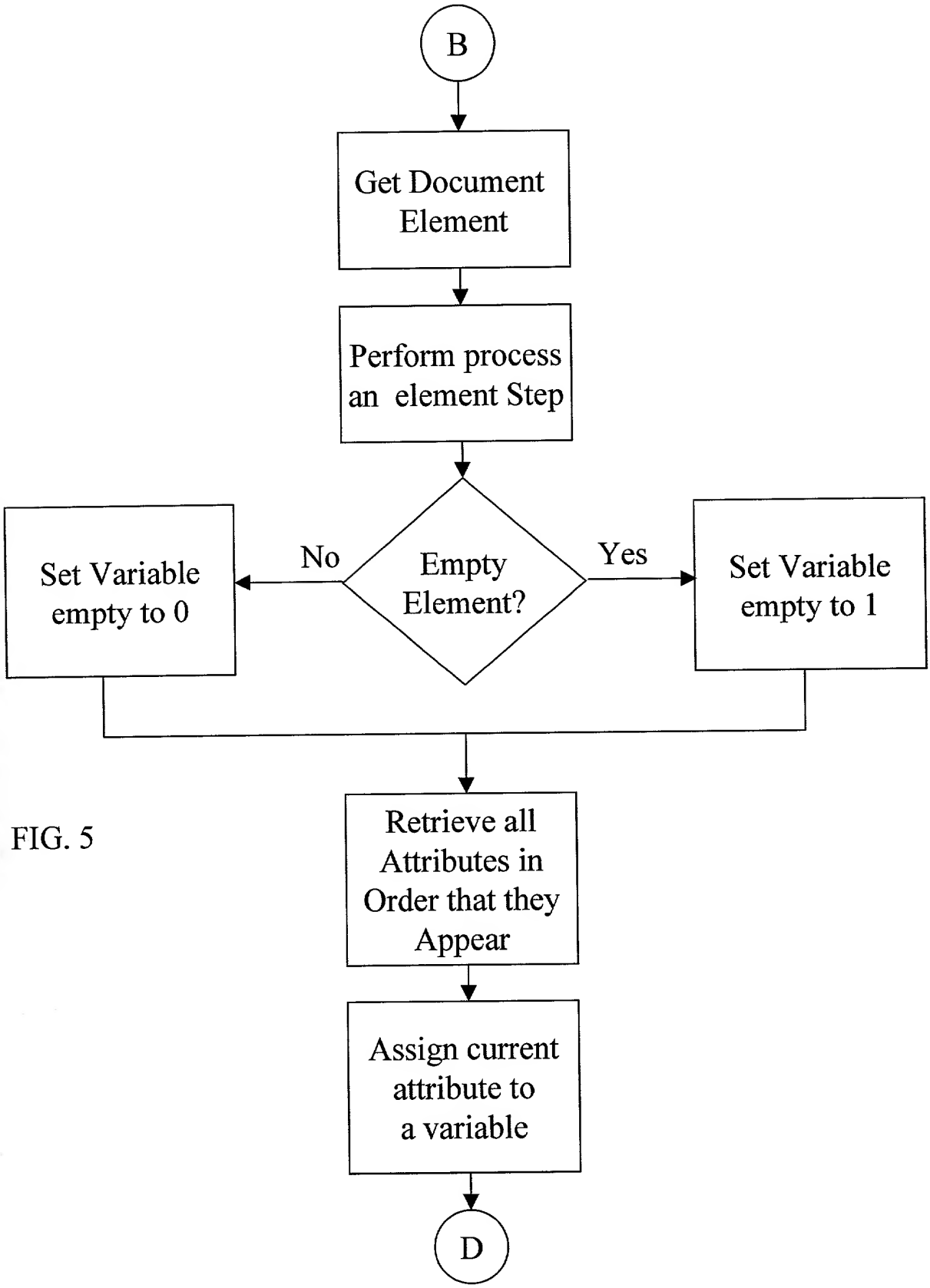
B
Get Document Element
Perform process an element Step
Empty Element?
No
Yes
Set Variable empty to 0
Set Variable empty to 1
Retrieve all Attributes in Order that they Appear
Assign current attribute to a variable
D

FIG. 5

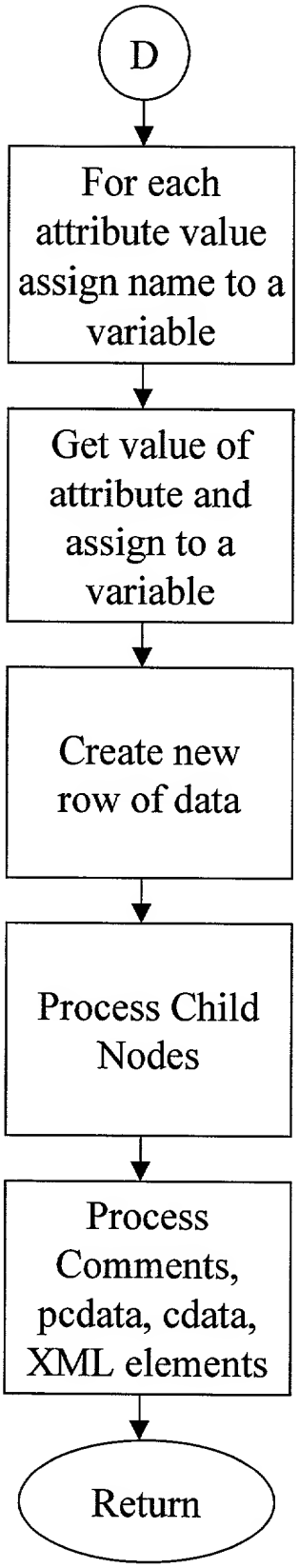
D
For each attribute value assign name to a variable
Get value of attribute and assign to a variable
Create new row of data
Process Child Nodes
Process Comments, pcdata, cdata, XML elements
Return

FIG. 5A